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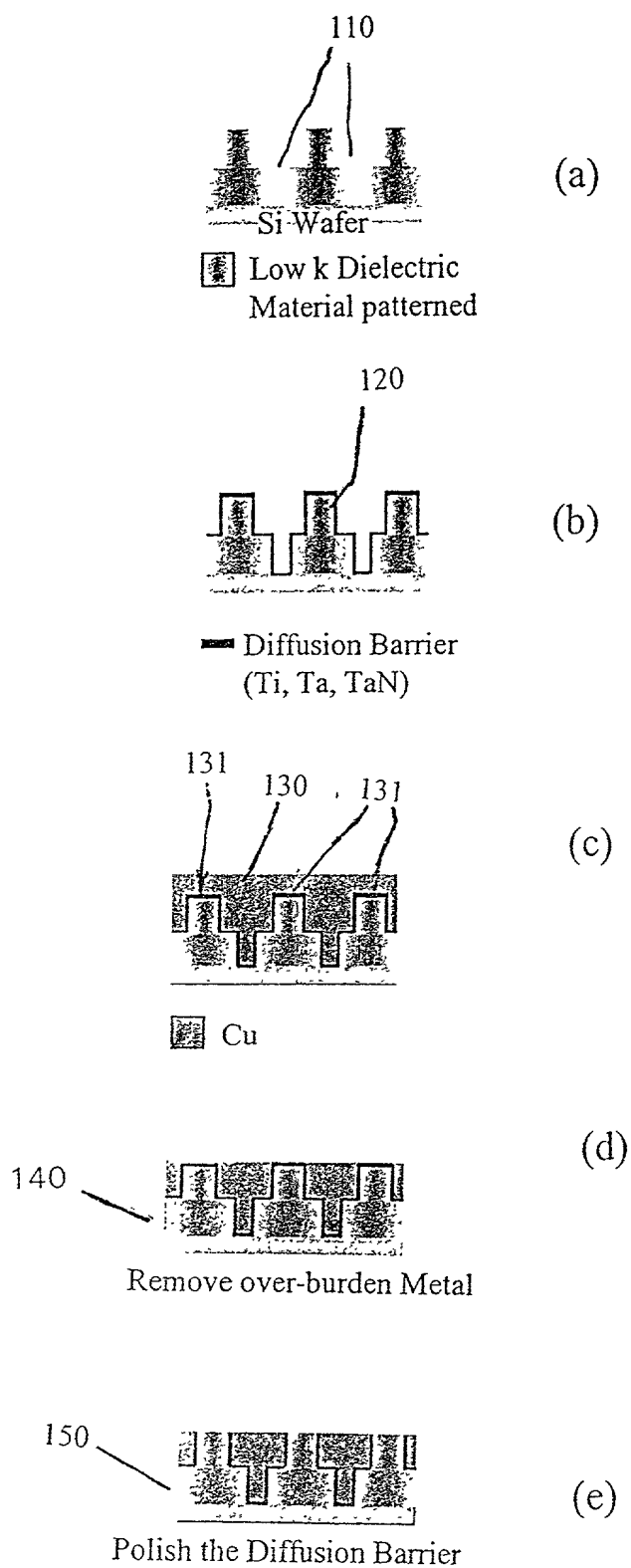
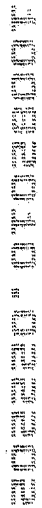


FIG. 1

[illegible][illegible]

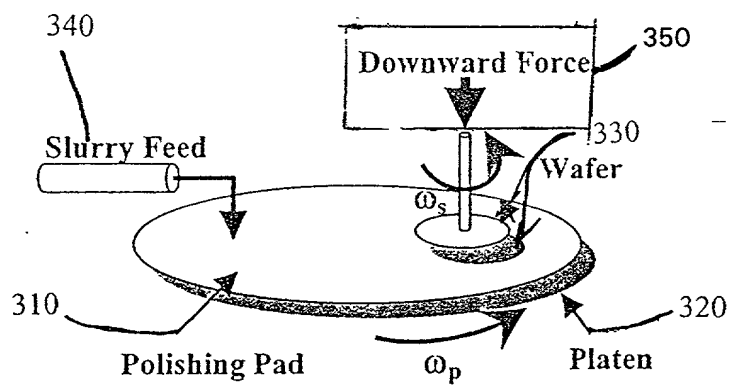


FIG. 3

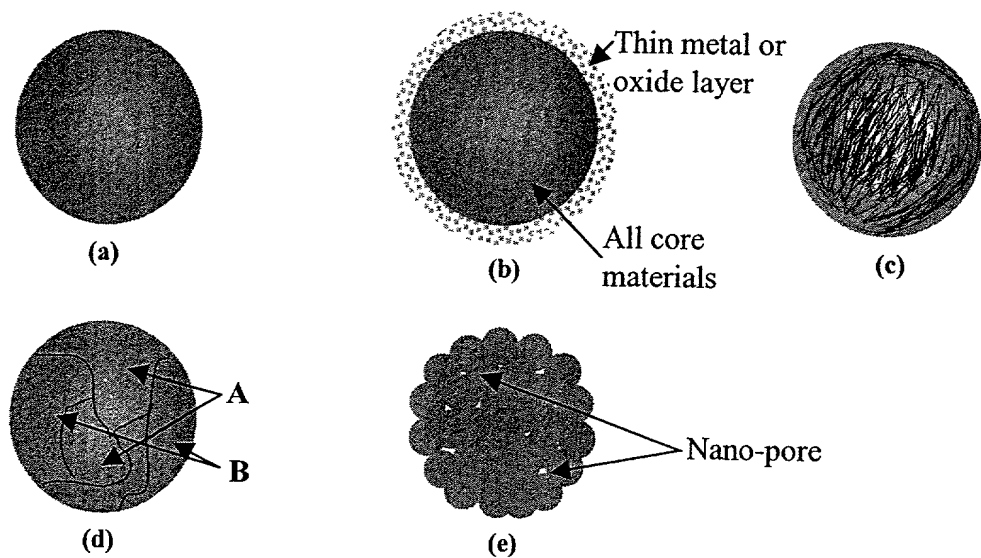


FIG. 4

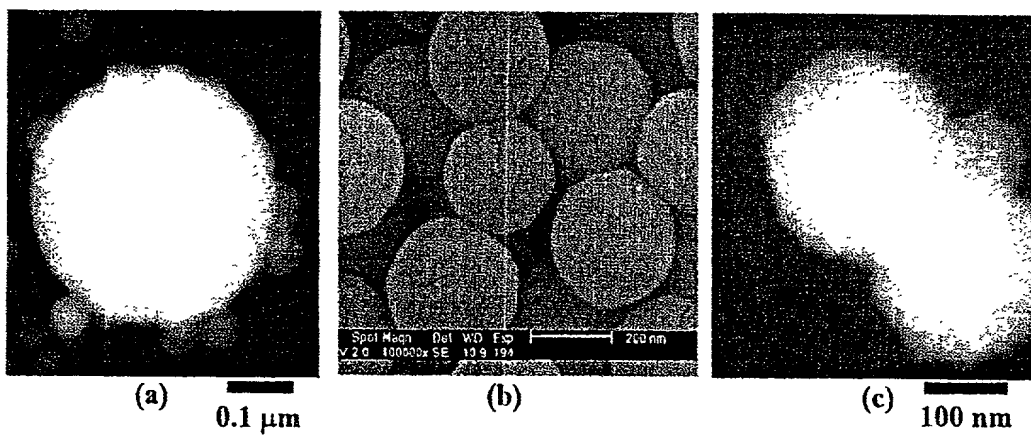


FIG. 5

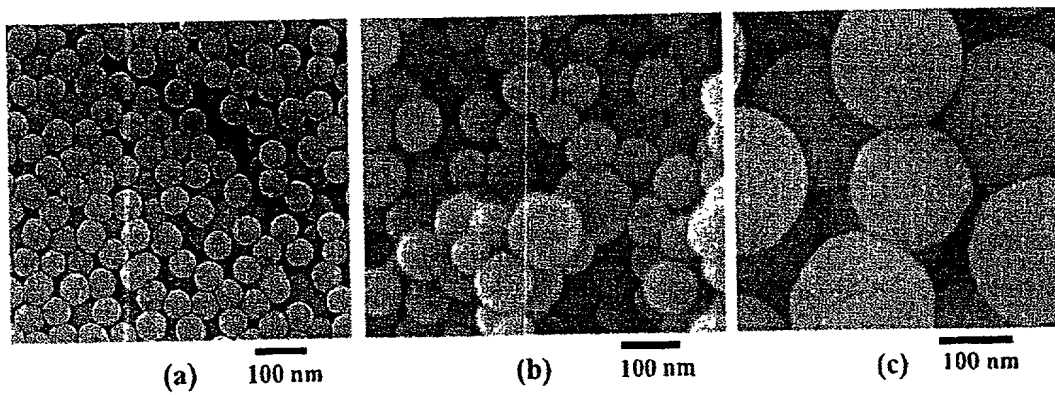



FIG. 6

A diagram of a silica particle, represented as a dark, textured sphere. The word "Silica" is written in a serif font across the center of the sphere. Surrounding the sphere are approximately 20 small circles, each with a line extending from it, representing surface hydroxyl groups.

A schematic diagram of a silica particle. It consists of a large, dark, textured circular core labeled "Silica". Surrounding this core is a ring of approximately 20 hydroxyl groups (OH). Each hydroxyl group is represented by a small circle (oxygen) connected to a line (hydrogen), which is further connected to the silica surface.



(d)

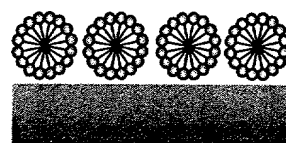
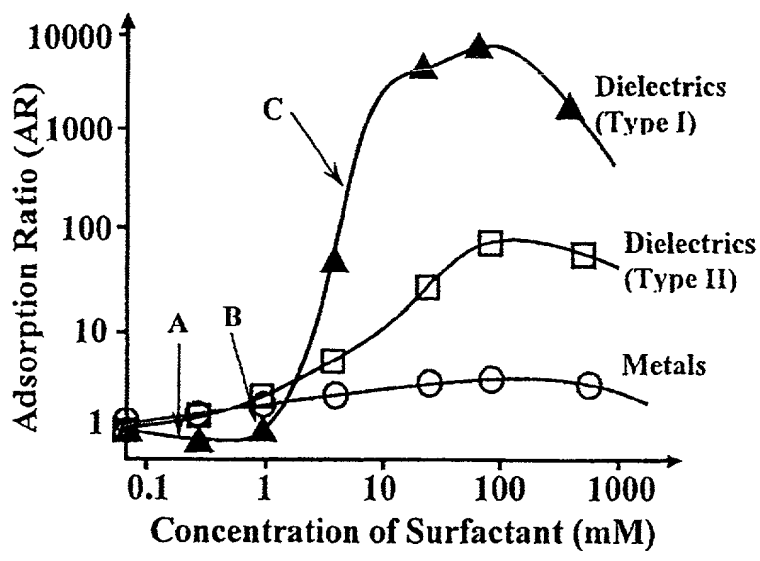
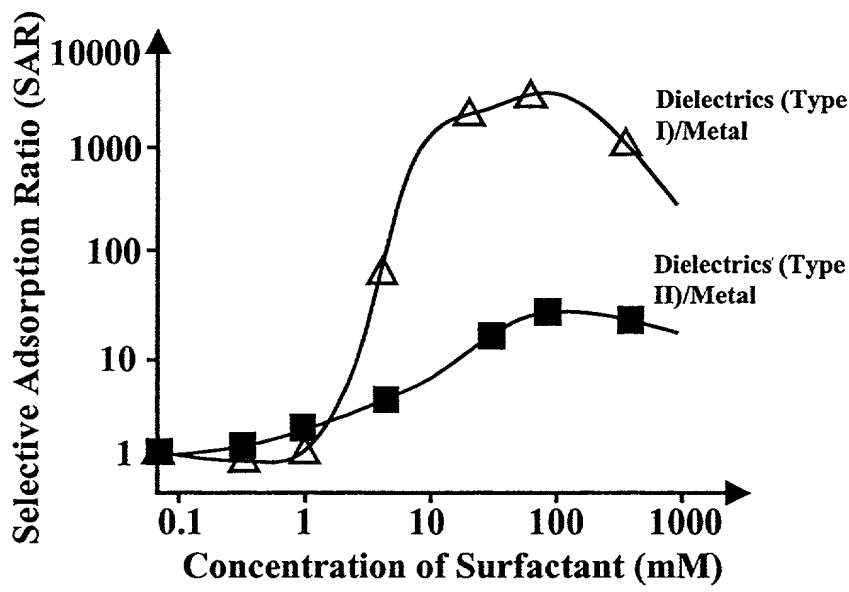
 SiO_2

FIG. 7



(a)




(b)

FIG. 8

Cu/Ta
Weak Adsorption

Pressure



SiO₂
Strong Adsorption

Pressure

A diagram showing a central circular area labeled "Core Particle" with a stippled texture. This core is surrounded by a ring of 16 flower-like or star-like patterns. Below this ring is a solid black horizontal bar. Underneath the bar, the chemical formula SiO_2 is written in a large, bold, sans-serif font. Below the SiO_2 label, the text "Low removal rate" is written in a bold, italicized, sans-serif font.

FIG. 9

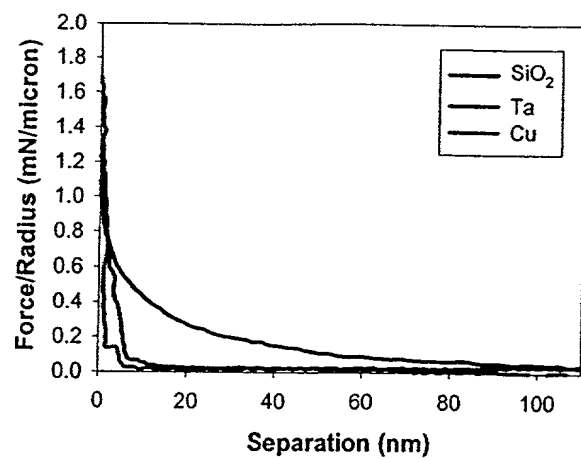


FIG. 10